

Applicant: Xuekui Lan et al.
Application No.: 09/763,214
Response to Office action dated Mar. 23, 2005
Amendment dated June 13, 2005

Remarks

Claims 1–4 and 8–12 remain pending in the application. In the Office action dated March 23, 2005, claim 9 was objected to as containing an informality, and claim 10 was rejected as indefinite under 35 U.S.C. 112. In addition, claim 10 was rejected as anticipated by Eklund et al. or Sollinger et al. Claims 1–3 were rejected as anticipated by a Li et al '369, and as obvious over Eklund et al. in view of Holt et al., and obvious over Sollinger et al. in view of Holt et al.

The description of the prior art has been amended to correct the reference to Sollinger et al. which was incorrectly listed as “US-A-4 434 018”. The specification has been amended to provide the correct call-out number for the coater head.

Claim 9 has been amended to properly refer to the “metering rod” of claim 8. Claim 10 has been amended to positive recite a step of coating the web.

Claim 4 was rejected as obvious over Eklund et al. in view of Holt et al and further in view of Li et al '163 and as obvious over Sollinger et al. in view of Holt et al. and further in view of Li et al. '163 and as obvious over Li et al '369 view of Li et al. '163.

Claims 8–9 were rejected as unpatentable over Eklund et al. in view of Holt et al and further in view of Elvidge et al.; Sollinger et al. in view of Holt et al. and further in view of Elvidge et al.; and Li et al '369 in view of Elvidge et al.

Removal of References under 35 U.S.C. 102(e)/103(c)

Statement of common ownership:

**App. No. 09/763,214 and U.S. Pat. Nos. 5,824,369 and
5,665,163 were, at the time the invention of App. No 09/763,214
was made, owned by Beloit Technologies, Inc.**

With the removal of Patents 5,824,369, and 5,665,163 and the revision of claim 4 placing it in independent form, claim 4 is no longer subject to rejection.

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No disclaimer is required with respect to patents 5,824,369 or 5,665,163 in regards to claim 4 because the examiner has not shown claim 4 to be an obvious variant of the claims of either of the patents, and thus claim 4 is patentably distinct from the claims of U.S. Pat. No. 5,824,369 or U.S. Pat. No. 5,665,163.

Claim 1 has been amended to further clarify that the mixing chamber has distinct features in being distinct from the feed channel and diverging from the inlet and converging into the feed channel. Support for the amendment of Claim 1 is found in FIGS. 3 and 5, and in the PCT specification on p. 13, last paragraph. Claims 1-3, as amended, are not anticipated by Li et al '369, and the examiner has not shown claims 1-3 to be an obvious variation of the claims of Li et al '369 or the claims of Li et al '163. Claims 1-3 as amended are not obvious over Eklund et al. in view of Holt et al. Eklund et al. suggests, at col. 5, lines 36-39, that " means corresponding to the flow direction alternation and throttling arrangements 9,10,11a shown in FIG. 1 may be arranged between the chamber 7 and the chamber 3 shown in FIG. 3." However, Eklund et al does not suggest forming a mixing chamber of as set fourth in claim 1.

Claims 1-3 as amended are not obvious over Sollinger et al. in view of Holt et al., neither of which show or make obvious the mixing chamber as now claimed. Claims 8-9 are dependent on amended claim 1, and therefore allowable.

No disclaimer is required with respect to patents 5,824,369 or 5,665,163, in regards to claims 1-3, 8-9, or 10 because the claims as amended are not an obvious variant of the claims of either of U.S. pat. No. 5,824,369 or U.S. Pat. No. 5,665,163, and thus claims 1-3, 8-9, and 10 are patentably distinct from the claims of patents 5,824,369 or 5,665,163.

Claim 10 has been amended to require that a majority of the coating flows into the recirculating channel and onto the paper web. Claim 10 has also been amended to include supplying coating to the mixing chamber through a plurality of parallel holes aligned in the cross-machine direction which diverge into the mixing chamber and to include supplying coating

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to the mixing chamber through a plurality of flow-metering orifices from the recirculation chamber. Claim 10 has also been amended to require a diverging flow from the mixing chamber to the feed channel. The claim 10 as amended is not anticipated or obvious in view of Eklund et al. or Sollinger et al., or the other art of record. Support for theses amendments is found as set fourth for claim 1; and in the PCT specification in the last sentence of the paragraph bridging pages 13 and 14; the penultimate paragraph of page 9/A; the the penultimate sentence of penultimate paragraph on page 11.

New dependent method claims 11 and 12 have been added. Claim 11 adds metering the coating with a counter rotating roll, claim 12 adds forming the baffle, and the coating chamber and the recirculation channel with a flexible blade.

Applicant believes that no new matter has been added by this amendment.

Applicant submits that the claims, as amended, are in condition for allowance. Favorable action thereon is respectfully solicited.

Respectfully submitted,



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